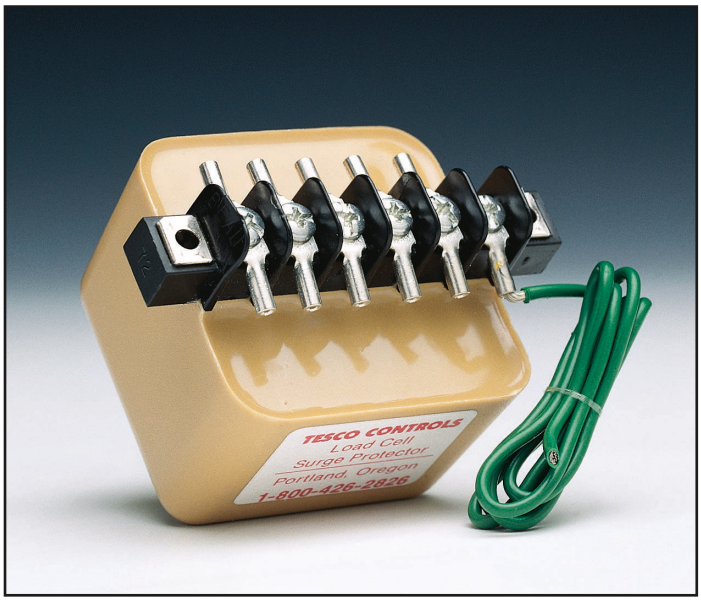
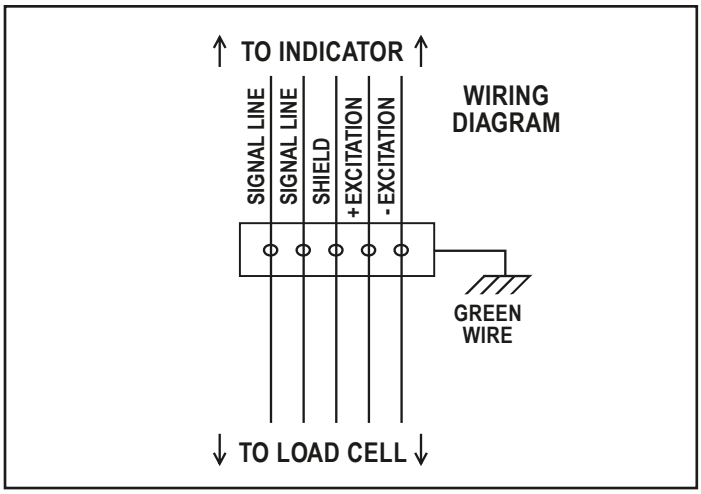
Load Cell Protection

TES 15/15E





DESCRIPTION

Complete lightning and AC power line transient protection for a platform weighting system is provided with the installation as specified of two TESCO products, the TES 7 AC line protector and the TES 15 load cell protector. Figures 1 & 2 show the recommended placement of these two TESCO products for a specified wiring and component locations for a four load cell weighting platform.

INSTALLATION NOTES

1. The TES 15 load cell protector should be installed close to the individual load cells so that the load cell cable lengths to the TES 15 protectors will be one foot or less.
2. It is highly recommended that each crimp lug connection be crimped and soldered for the best long term corrosion protection.
3. All TES 15 protector load cell connection terminals (except the green marked/green wired earth ground terminal) are non-polarized and are insensitive to lead placement position. Any signal lead, any exitation voltage lead, and the cable shield can be connected to any individual connection terminal. (See Figure 2 for examples.)
4. The TES 15 protector's earth ground green wire lengths should be kept as short as possible with a two foot maximum.
5. The TES 15 protector's earth ground green wires should be attached as close as possible to the individual load cell's actual case to earth ground connections.
6. Cable shield should bypass the TES 15 located at the Digital Indicator AC ground or chassis ground. (See Figure 1.)
7. The green wire of the TES 15 located at the Digital Indicator should be connected to the Digital Indicator signal ground (**NOT** chassis ground). This is normally the (-) side of the exitation voltage.

ELECTRICAL SPECIFICATIONS

Maximum Peak Voltage Protection	6 KV
Maximum Peak Current Protection	6,000 AMPS
Maximum 100 AMPS Voltage (voltage from any terminal to any other terminal)	9 V
Maximum 100 AMPS Clamping (voltage from any terminal to any earth ground)	130
Operating Temperature Range	-40 C to + 85 C
Response Time	< 15 N Sec
Fire Rating	94 V-0